MANITOBA VITAL STATISTICS

AN HISTORICAL REVIEW

1984 - 1993

MANITOBA BUREAU OF STATISTICS

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MBS 94-17

PRICE: $25

JULY 1994

HISTORICAL OVERVIEW

LIVE BIRTHS

There were 17,115 live births in Manitoba during 1984. The number of births increased to a high of 17,524 in 1986 and back down to a low of 16,538 in 1992. Over this ten year time period, male births have outnumbered female births by an average of 422 births annually. Winnipeg's portion of Manitoba has risen from 64.7% in 1984 to 69.9% in 1993.

Winnipeg's 10 year average number of births is 11,728. The Interlake and Southeast regions have registered the fewest number of births during the ten year period with annual averages of 356 and 390 respectively. These two regions were followed by the North Central region with an average of 484 births, the Parklands region with 590 births and the South Central region with 626 births. The only two regions besides Winnipeg to record more than one thousand births on a ten year average basis were the North region with 1,360 births and the Southwest region with 1,621 births.

The ten year average birth rate for Manitoba is 15.6 live births per 1,000 population. The birth rate ranged from a high of 16.4 in 1985 to a low of 14.9 in 1992. Male birth rates have consistently been higher than female birth rates during the ten year period. Male birth rates have averaged 16.2 births per thousand population while female births have averaged 15.1 per thousand population. The regions with the highest birth rates have consistently been Winnipeg and the North. The lowest birth rates have been recorded in the Interlake and Southeast regions.

DEATHS

The number of deaths in Manitoba went from a low of 8,312 in 1984 to a high of 9,260 in 1993. During this ten year period, male deaths outnumbered female deaths by an annual average of 748 deaths. Winnipeg's proportion of Manitoba deaths has fluctuated between 59.3% to 60.6%.

The North Central region recorded an annual average of 309 deaths during the ten year period. This was followed by the North region which recorded an annual average of 320 deaths and the Southeast region with 392 annual deaths during this ten year period. The South Central reported 408 deaths, the Interlake reported 494 deaths and the Parklands reported 532 deaths as their annual averages during the ten year period. Only the Southwest and Winnipeg had ten year averages greater than 1,000 deaths at 1,078 and 5,345 respectively. Manitoba had a ten year average of 8,877 deaths.

The North and the Southeast regions have consistently registered the lowest death rates from 1984 to 1993: the North rates ranged between 3.8 and 4.6 while the Southeast rates ranged from 4.6 to 5.4 deaths per thousand people. These regions were followed by the North Central, Interlake and South Central regions with ten year average death rates of 6.6, 6.7 and 8.1 respectively. Winnipeg consistently ranked sixth amongst Manitoba regions with an average death rate of 8.7, followed by the Southwest and Parklands regions with average rates of 9.9 and 10.7 persons per thousand population.

INFANT DEATHS AND STILLBIRTHS

The number of infant deaths in Manitoba ranged from 184 in 1985 to a low of 112 in 1992. Winnipeg's proportion of infant deaths averaged 78.8% of Manitoba's infant deaths during this ten year period. The number of male infant deaths averaged 79 while female infant deaths averaged 60 during this ten year period.

The North Central, Southwest and Parklands regions had the lowest average infant death rates of 3.5, 3.7 and 4.0 per thousand live births during the ten year period. The South Central and Southeast regions reported average infant death rates of 4.9 and 5.9 respectively. The North, Interlake and Winnipeg regions had the highest infant death rates of 7.9, 8.9 and 9.4 infant deaths per thousand live births. Manitoba recorded a ten year average death rate of 8.1.

The number of stillbirths ranged from a high of 142 in 1993 to a low of 83 in 1992. Winnipeg's proportion of stillbirths averaged 71.5% of Manitoba's stillbirths during the ten year period. The number of male stillbirths averaged 61 and the number of female stillbirths averaged 55 during this ten year period.

The Southeast region had the lowest stillbirth rate of 2.6 during the ten year period. The Interlake, South Central and Parklands regions followed with average stillbirth rates of 4.4, 5.2 and 5.8 respectively. The Southwest and North Central regions reported average stillbirth rates of 6.4 and 6.8. Winnipeg and the North regions had the highest average stillbirth rates of 7.1 and 7.3. The Manitoba ten year average stillbirth rate was 6.8 per thousand live births.

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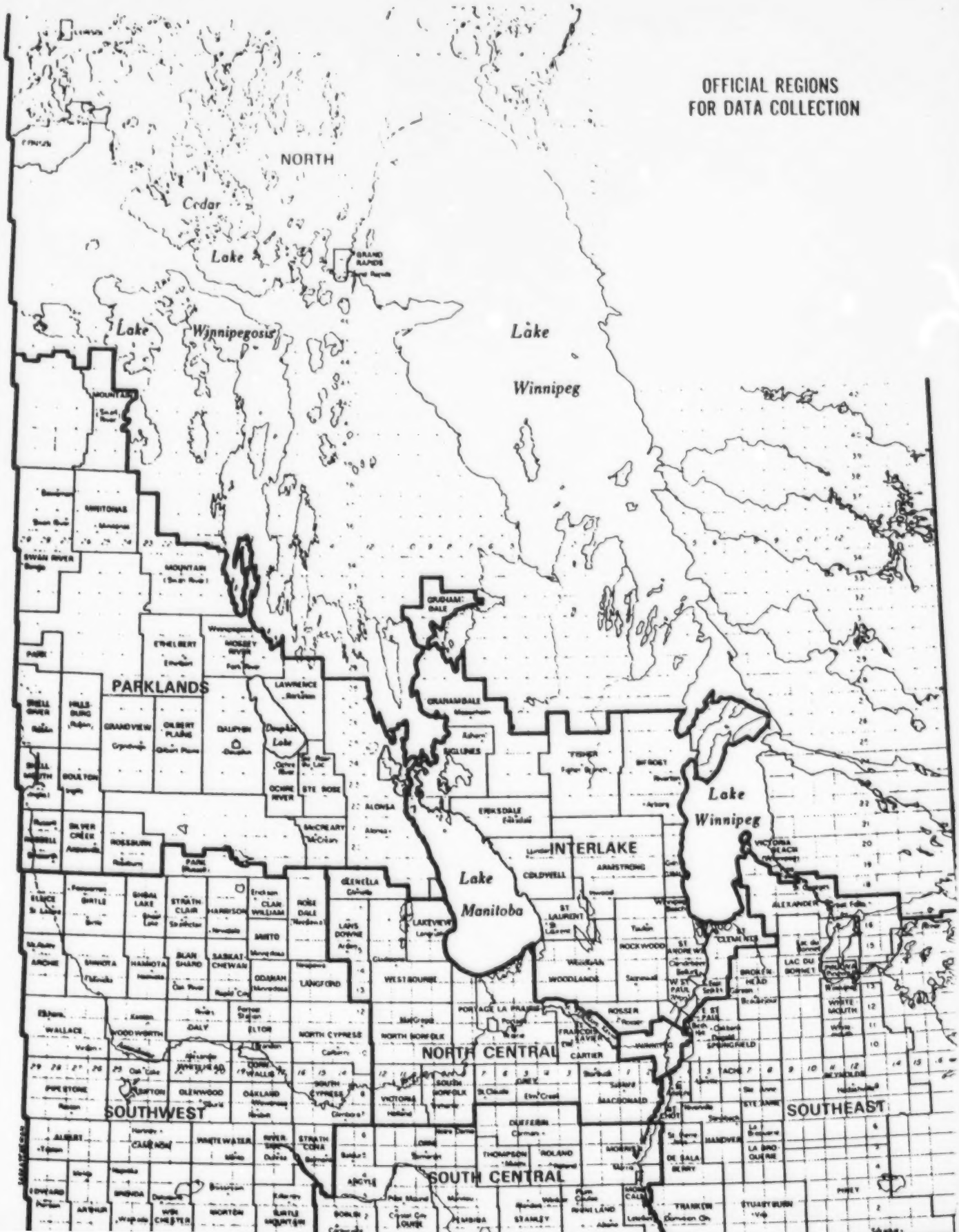

OFFICIAL REGIONS
FOR DATA COLLECTION
NORTH
Cedar
Lake
Lake
Winnipegosis
Lake
Winnipeg
PARKLANDS
INTERLAKE
Lake
Manitoba
Lake
Winnipeg
NORTH CENTRAL
SOUTHWEST
SOUTH CENTRAL
SOUTHEAST

INTRODUCTION

This report presents data on the vital statistics (births, deaths, and stillbirths) occurring during 1993 in the province of Manitoba. Historical data from 1984 to 1993 is available in this Manitoba Bureau of Statistics reports. The charts and tables in this report were constructed using data that was reported by the Office of Vital Statistics, Department of Family Services.

This data refers to events that occurred in Manitoba and involved Manitobans by place of occurrence. Where all characteristics of an event have not been recorded, the vital event has been omitted from that statistical table.

The population figures used are from the Statistics Canada July 1 estimates of population, rounded to the nearest hundred. Where population estimates are not available, population projections from the Manitoba Bureau of Statistics have been used to derive the approximate distribution of the population by age and sex. The Statistics Canada estimate was then broken down according to this distribution.

Manitoba is divided into 8 Official Regions for Data Collection (also known as Economic Regions). The following table illustrates the association between data collection region, economic region, and census division.

OFFICIAL REGION FOR DATA COLLECTION	ECONOMIC REGION	CENSUS DIVISION
Southeast	10	1, 2, 12
South Central	20	3, 4
Southwest	30	5, 6, 7, 15
North Central	40	8, 9, 10
Winnipeg	50	11
Interlake	60	13, 14, 18
Parklands	70	16, 17, 20
North	80	19, 21, 22, 23

The map on the opposite page also illustrates these relationships.

Further information and custom tabulations on the 1984 to 1993 vital statistics can be obtained from the Manitoba Bureau of Statistics by contacting David Greenwood at (204) 945-2989.

NOTE TO USERS

Population estimates from 1986 to 1991 have been revised to reflect the changes reported by Statistics Canada Demography Division in March 1993. Accordingly, birth rates and death rates for these years might not correspond to the published figures in the annual **"MANITOBA VITAL STATISTICS: A REGIONAL ANALYSIS"** for those years.

Rates for births and deaths are per thousand population.

Infant deaths are deaths under one year of age.
Infant death rates are per thousand live births.

Neonatal deaths are deaths under 28 days, excluding stillbirths.
Neonatal death rates are per thousand live births.

Post-neonatal deaths are infant deaths of 28 days or more.
Post-neonatal death rates are per thousand live births.

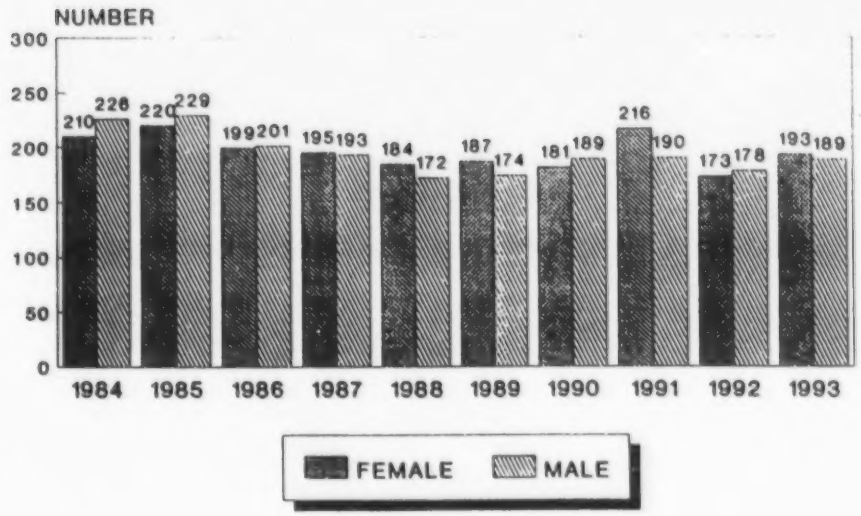
Perinatal deaths are deaths of less than 7 days or stillbirths.
Perinatal death rates are per thousand total births (live births + stillbirths).

THE

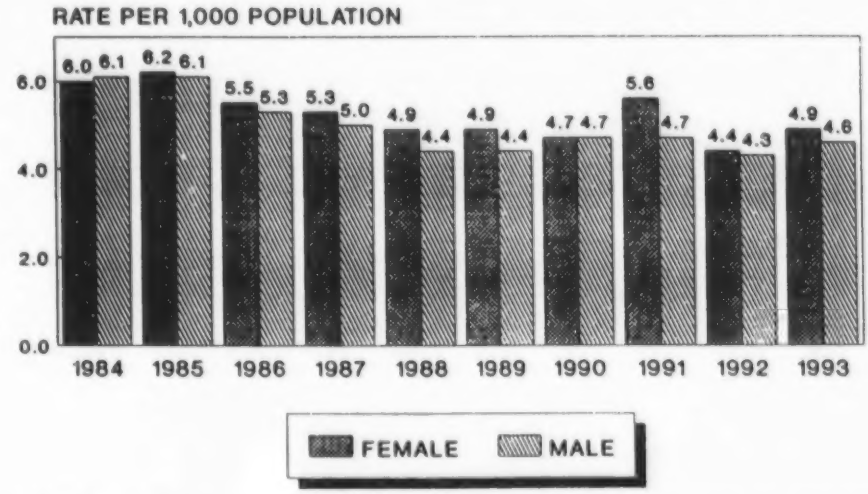
SOUTHEAST

REGION

MANITOBA LIVE BIRTHS
SOUTHEAST REGION: 1984 TO 1993
BY SEX



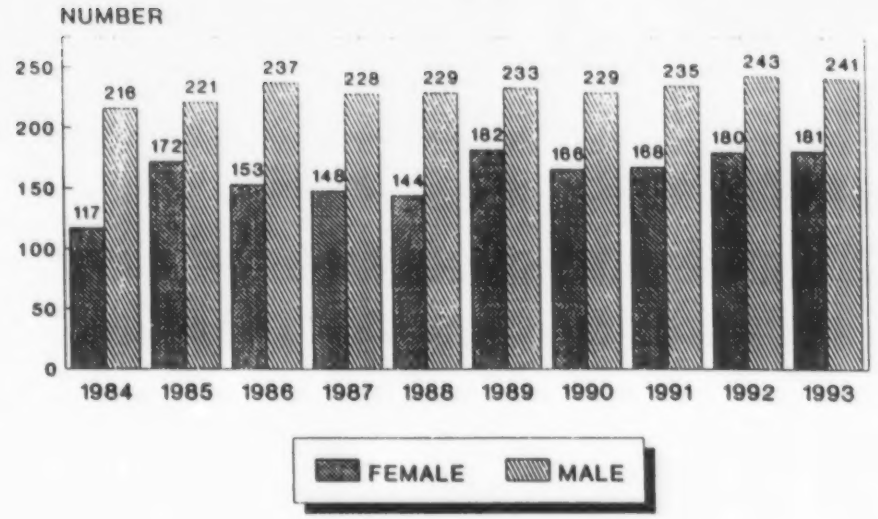
MANITOBA BIRTH RATES
SOUTHEAST REGION: 1984 TO 1993
BY SEX



DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA DEATHS
SOUTHEAST REGION: 1984 TO 1993
BY SEX



MANITOBA DEATH RATES
SOUTHEAST REGION: 1984 TO 1993
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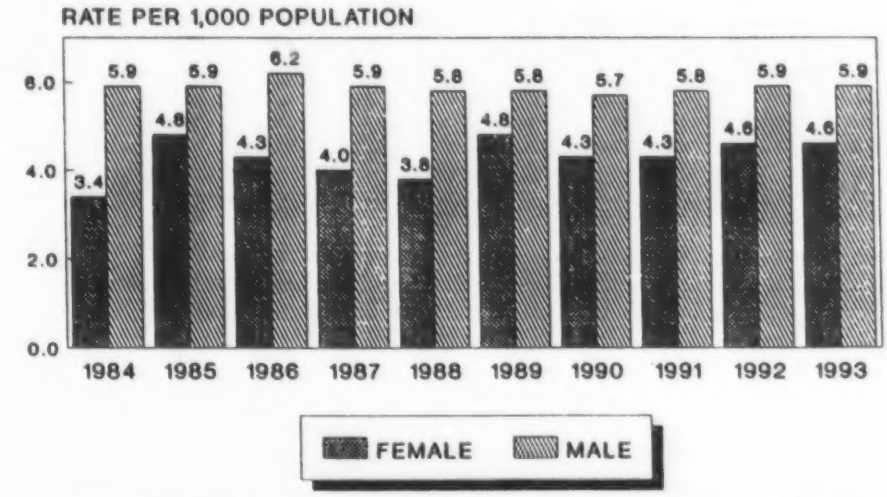
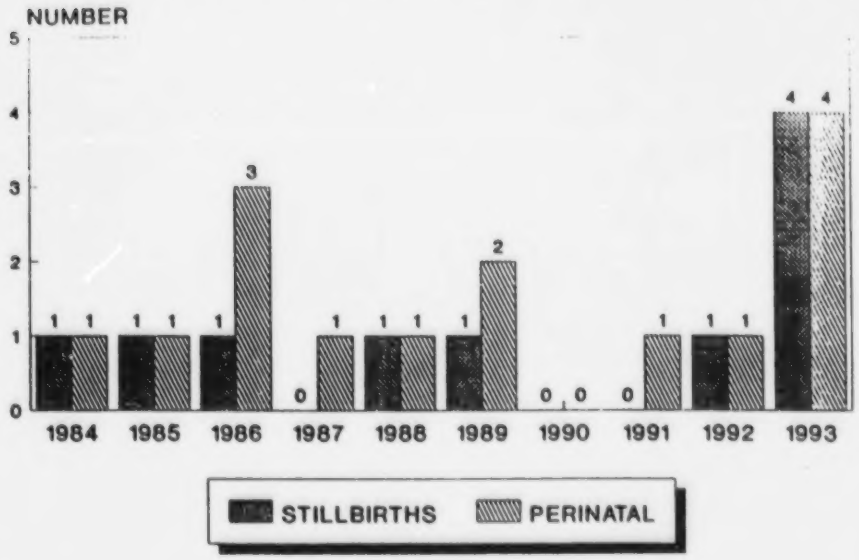


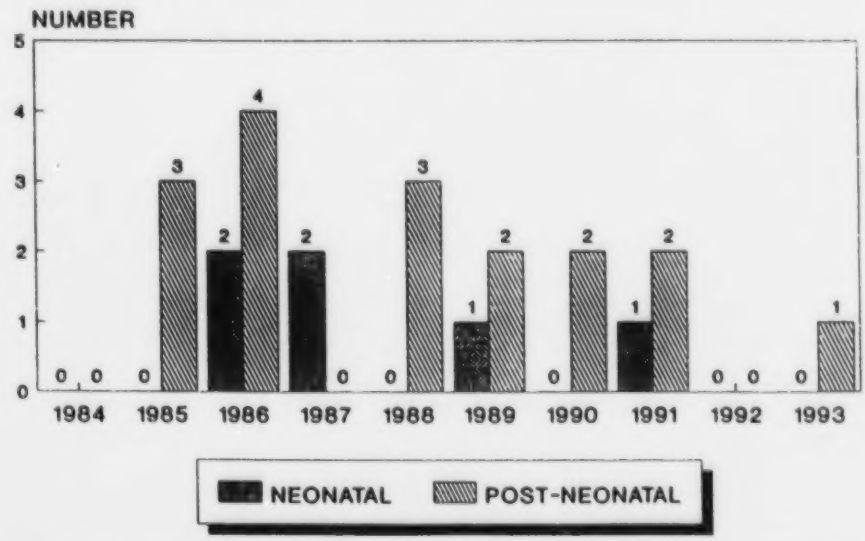
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTHS & PERINATAL DEATHS
SOUTHEAST REGION: 1984 TO 1993



MANITOBA INFANT DEATHS
SOUTHEAST REGION: 1984 TO 1993



DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

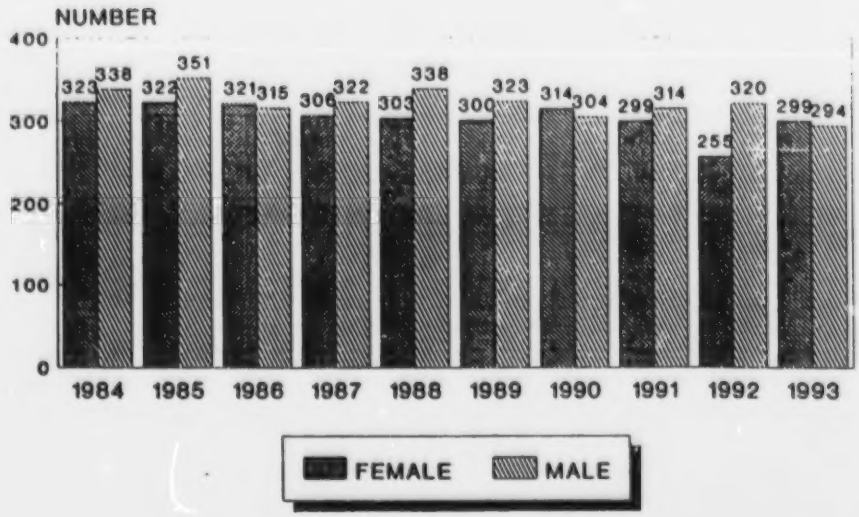
MANITOBA BUREAU OF STATISTICS
JULY 1994

THE

SOUTH CENTRAL

REGION

MANITOBA LIVE BIRTHS
SOUTH CENTRAL REGION: 1984 TO 1993
BY SEX



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SOUTH CENTRAL REGION: 1984 TO 1993
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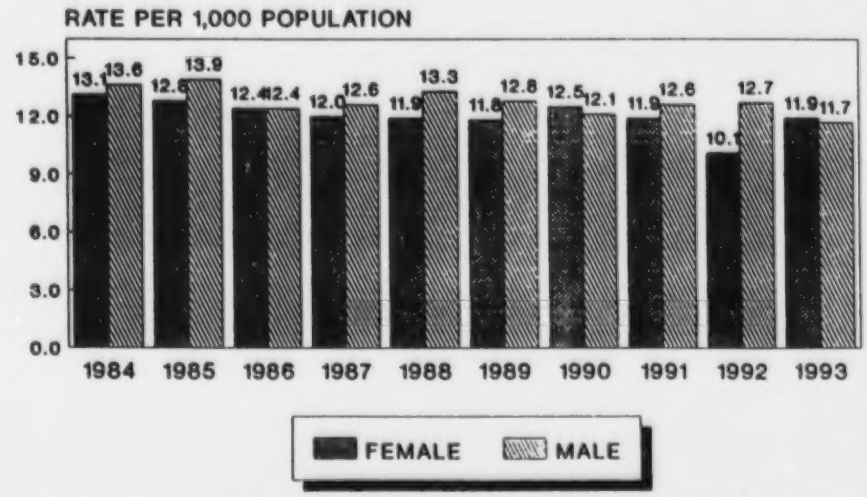

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MANITOBA BUREAU OF STATISTICS
JULY 1994

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SOUTH CENTRAL REGION: 1984 TO 1993
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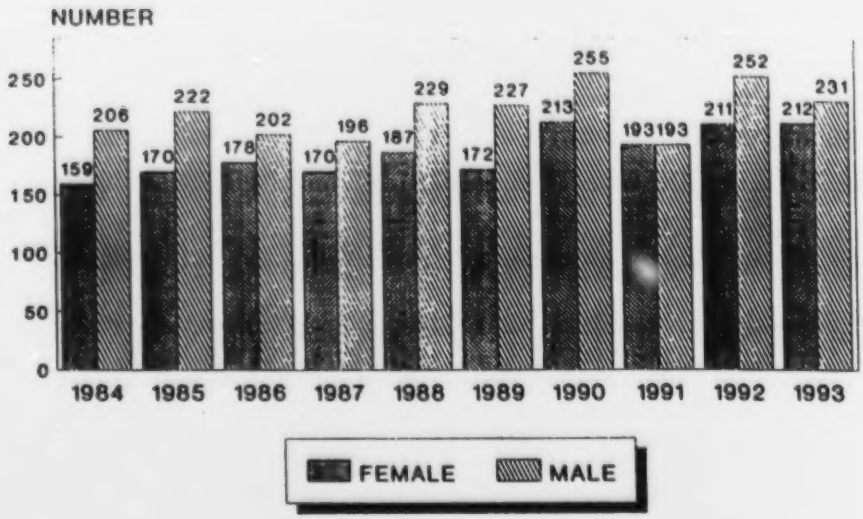

MANITOBA DEATH RATES
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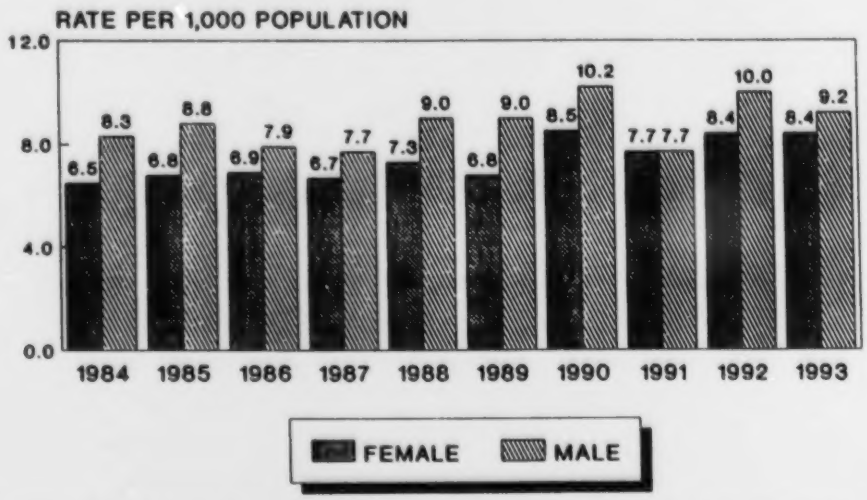

DATA SOURCE: OFFICE OF VITAL STATISTICS
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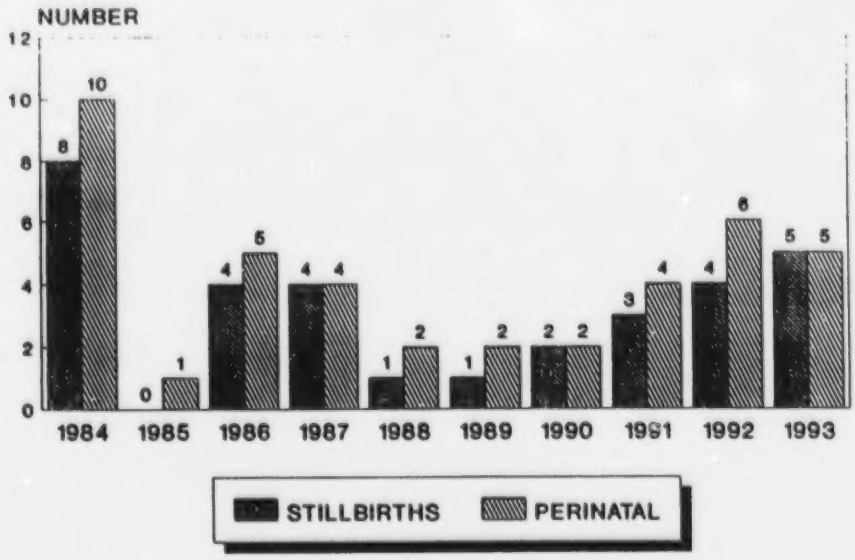
MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTHS & PERINATAL DEATHS
SOUTH CENTRAL REGION: 1984 TO 1993



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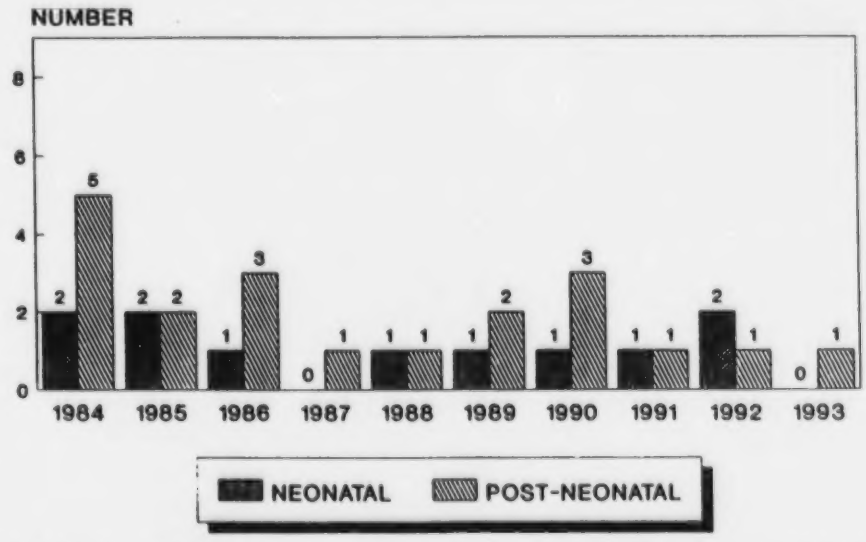
SOUTH CENTRAL REGION: 1984 TO 1993



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MANITOBA BUREAU OF STATISTICS
JULY 1994

THE

SOUTHWEST

REGION

MANITOBA LIVE BIRTHS
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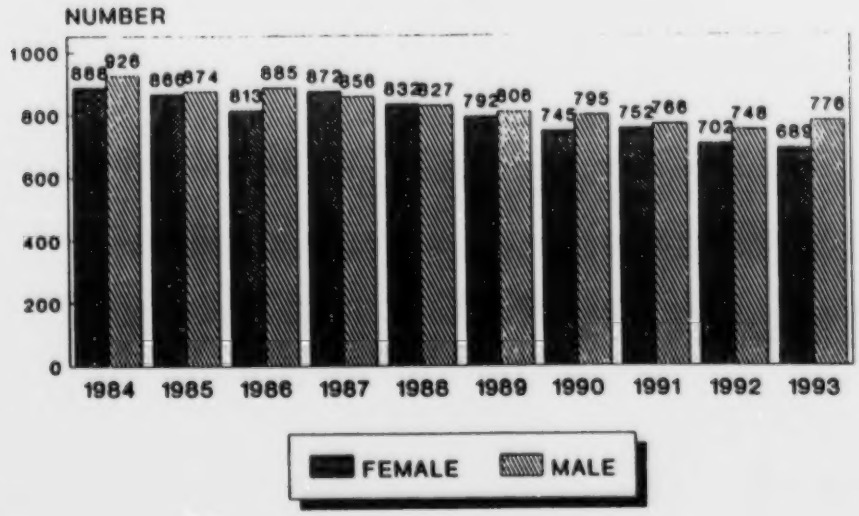

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SOUTHWEST REGION: 1984 TO 1993
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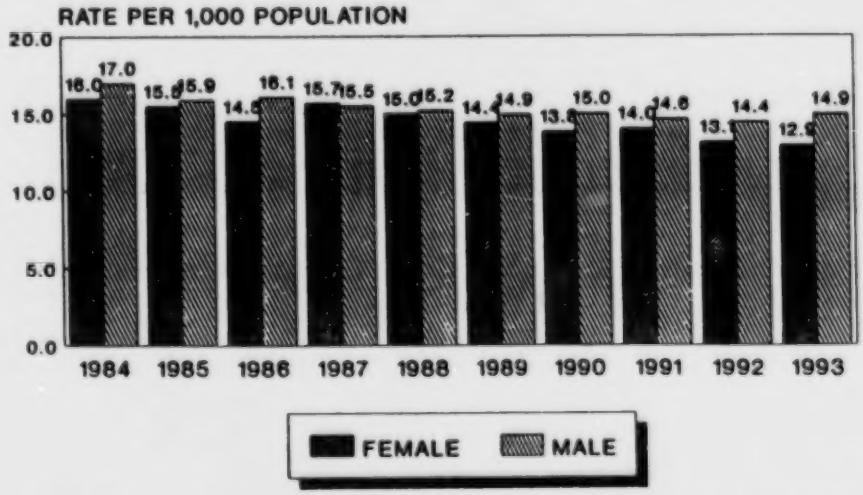

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JULY 1994

MANITOBA DEATHS
SOUTHWEST REGION: 1984 TO 1993
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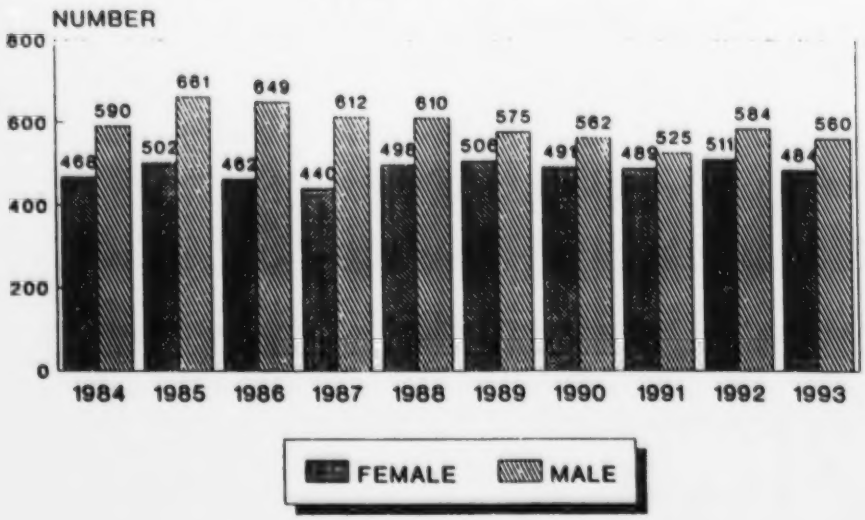

MANITOBA DEATH RATES
SOUTHWEST REGION: 1984 TO 1993
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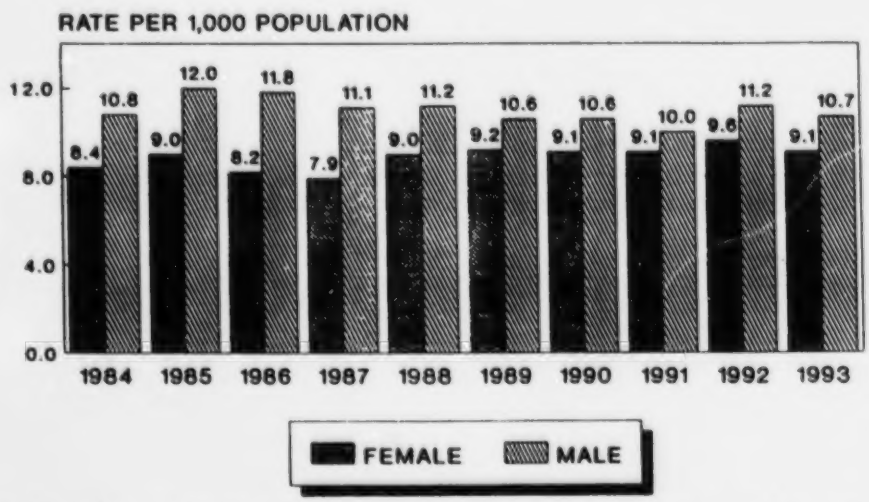
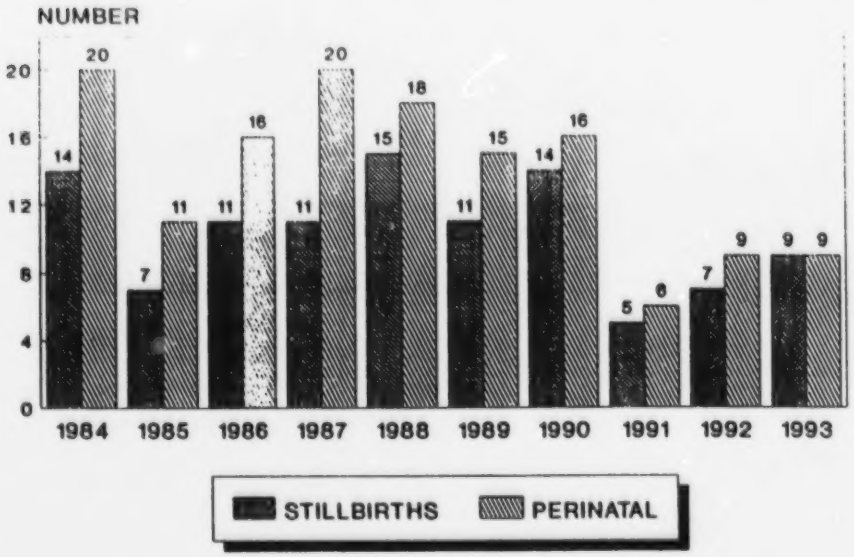


DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTHS & PERINATAL DEATHS
SOUTHWEST REGION: 1984 TO 1993



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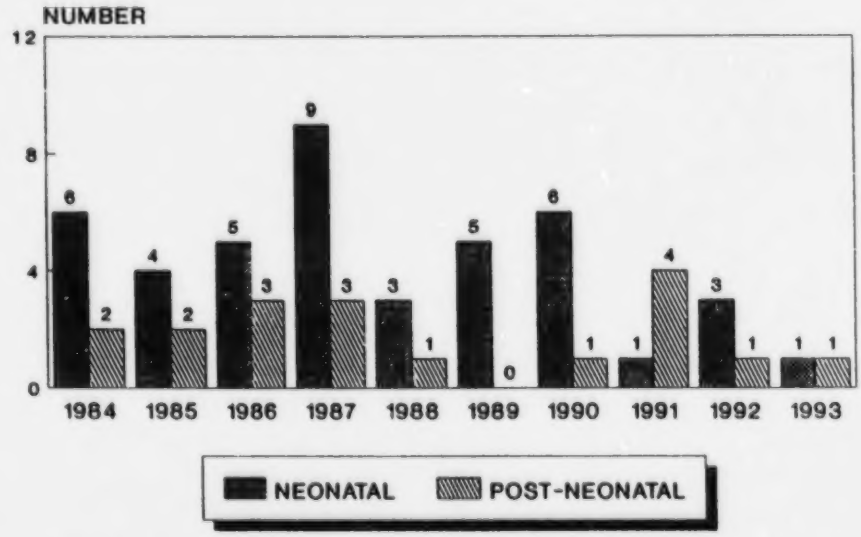
SOUTHWEST REGION: 1984 TO 1993



DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

THE

NORTH CENTRAL

REGION

MANITOBA LIVE BIRTHS
NORTH CENTRAL REGION: 1984 TO 1993
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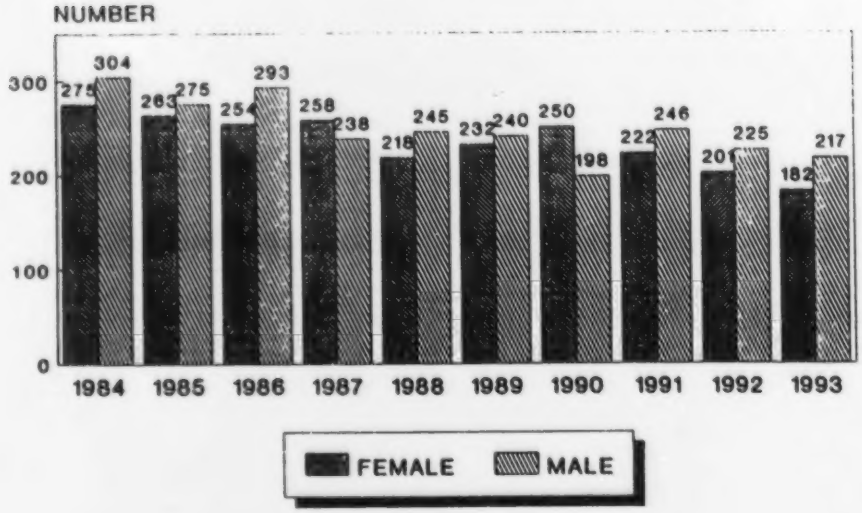

MANITOBA BIRTH RATES
NORTH CENTRAL REGION: 1984 TO 1993
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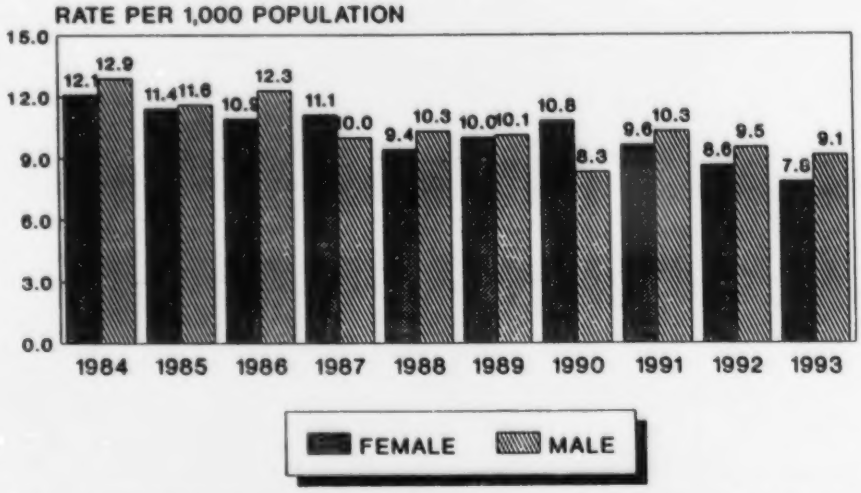

DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA DEATHS
NORTH CENTRAL REGION: 1984 TO 1993
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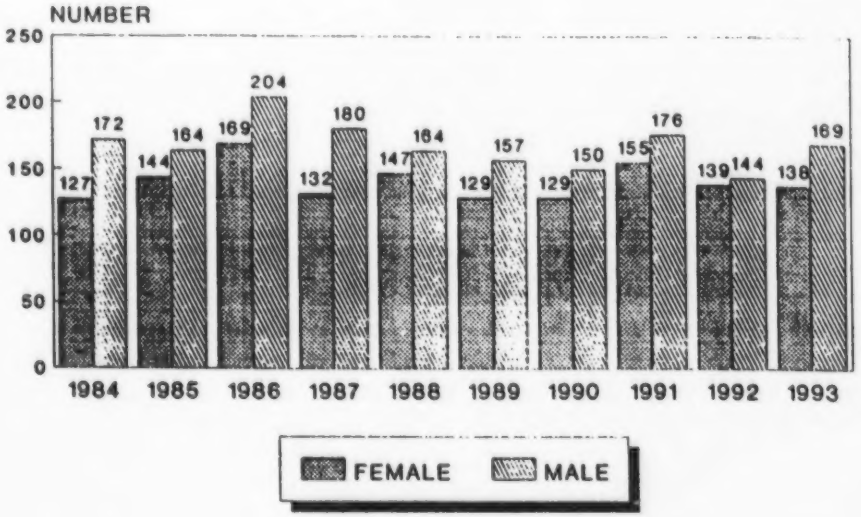

MANITOBA DEATH RATES
NORTH CENTRAL REGION: 1984 TO 1993
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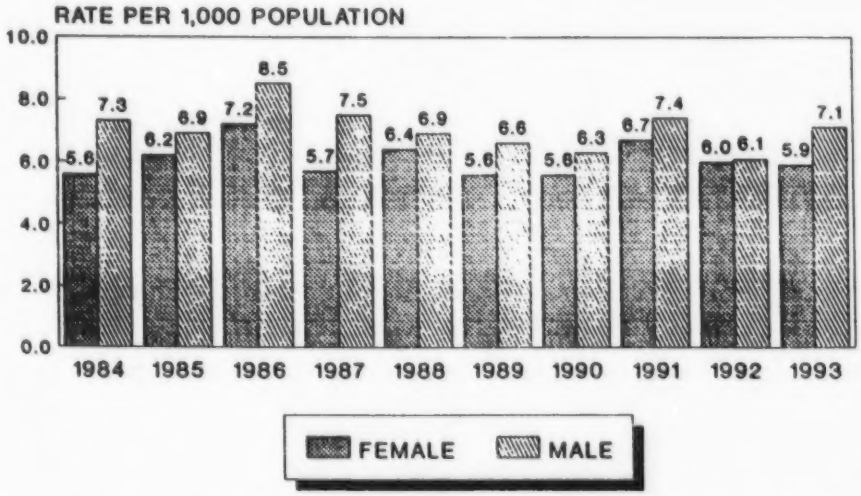
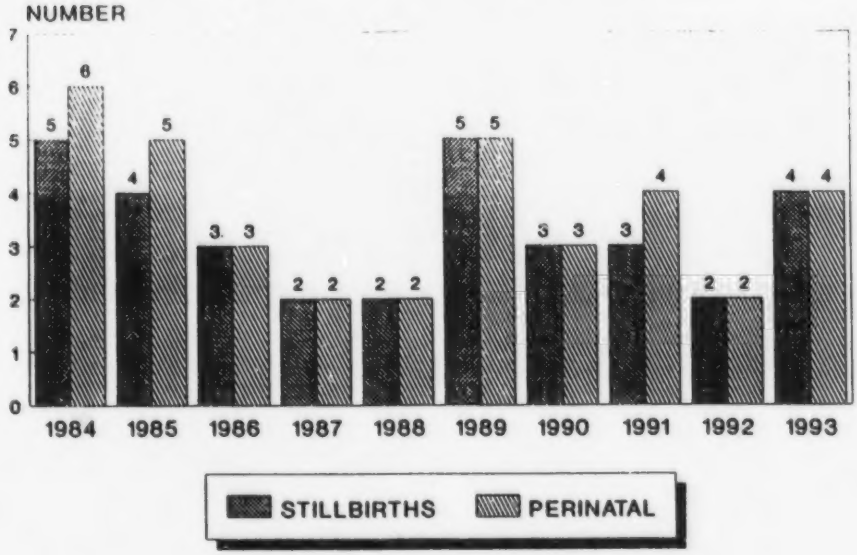


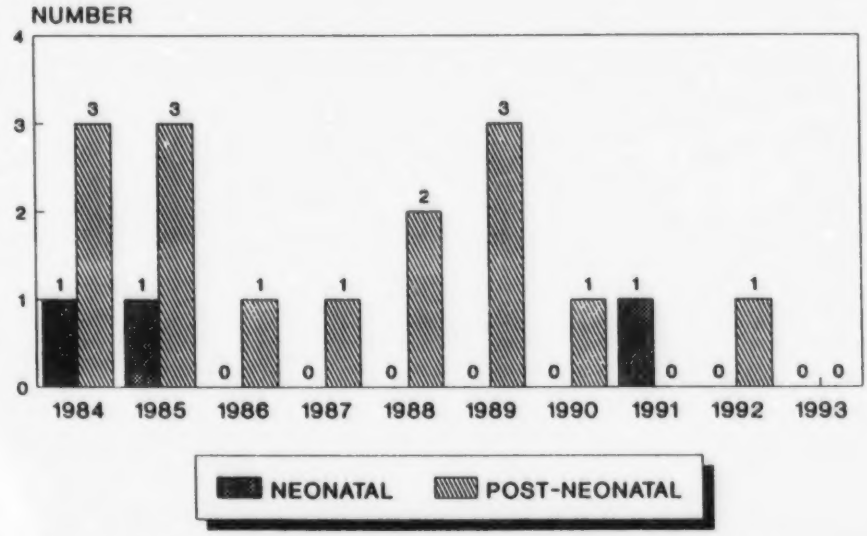
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTHS & PERINATAL DEATHS
NORTH CENTRAL REGION: 1984 TO 1993



MANITOBA INFANT DEATHS
NORTH CENTRAL REGION: 1984 TO 1993



DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

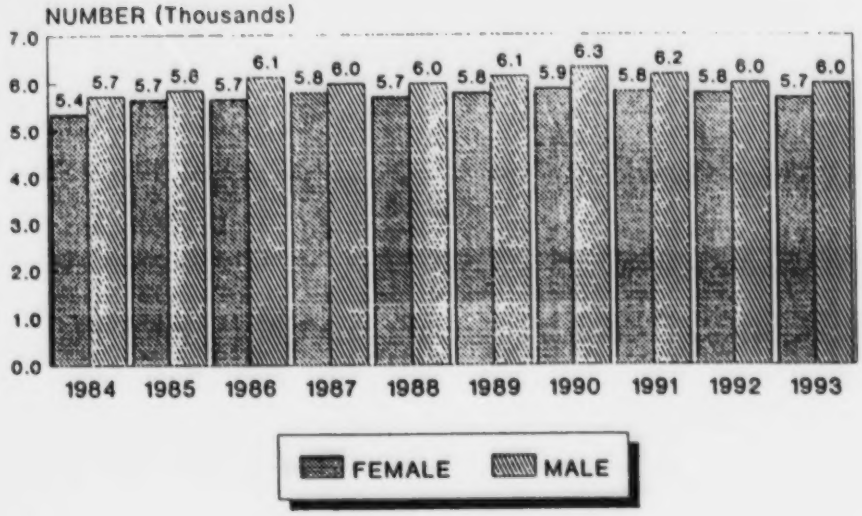
MANITOBA BUREAU OF STATISTICS
JULY 1994

THE

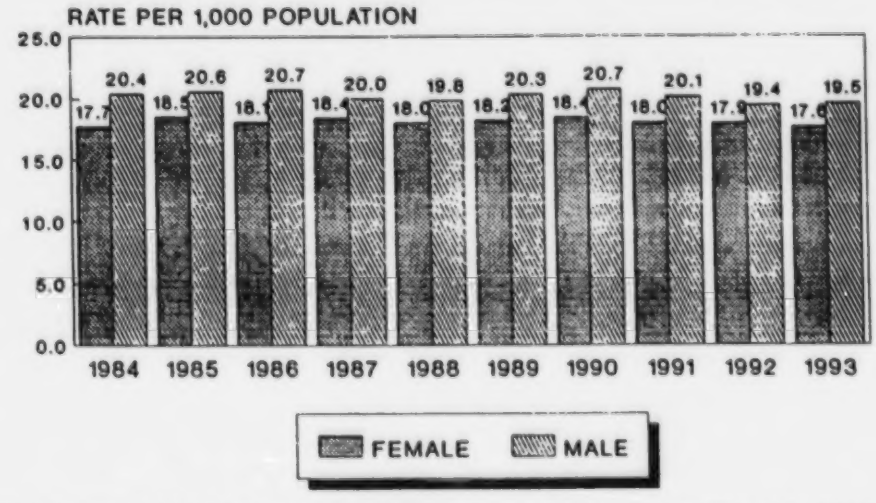
WINNIPEG

REGION

MANITOBA LIVE BIRTHS
WINNIPEG REGION: 1984 TO 1993
BY SEX



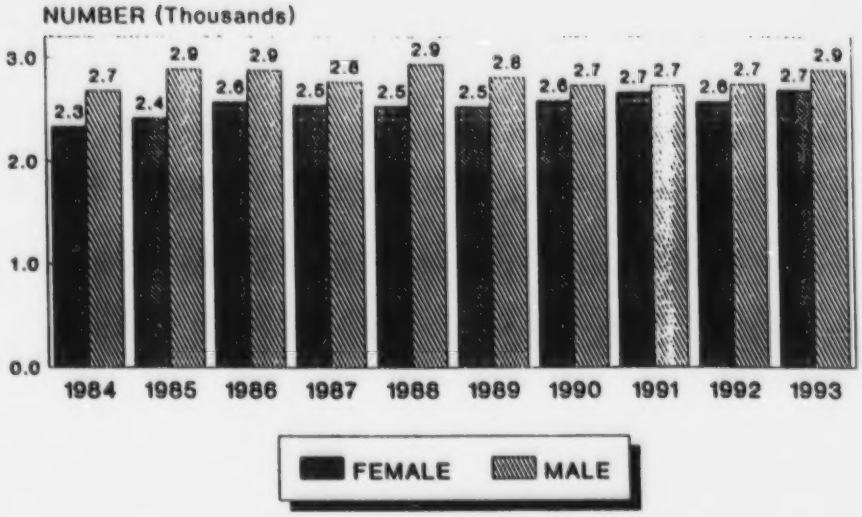
MANITOBA BIRTH RATES
WINNIPEG REGION: 1984 TO 1993
BY SEX



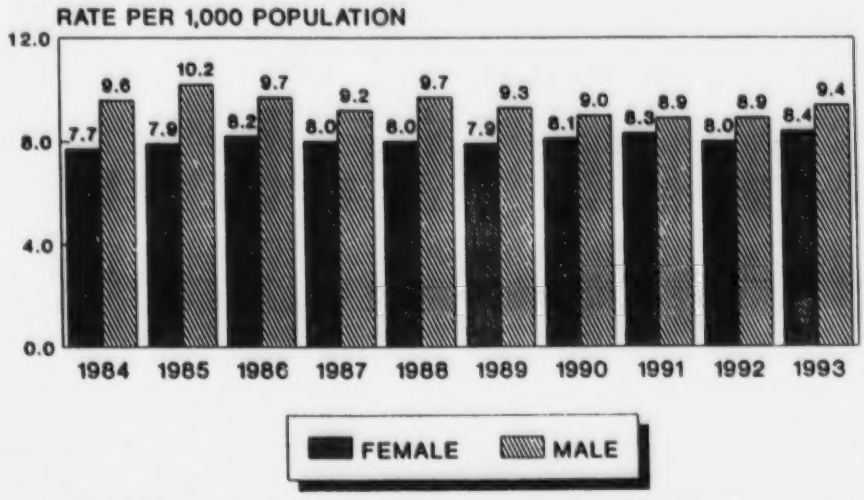
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA DEATHS
WINNIPEG REGION: 1984 TO 1993
BY SEX



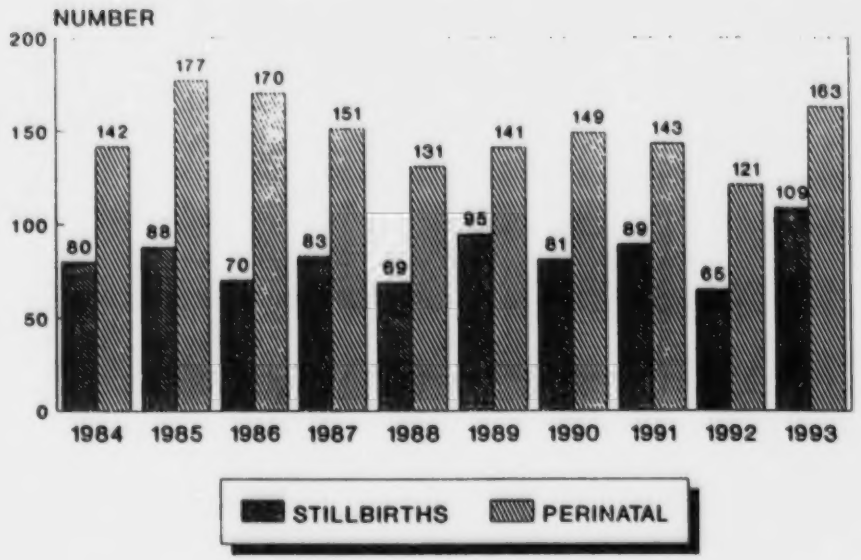
MANITOBA DEATH RATES
WINNIPEG REGION: 1984 TO 1993
BY SEX



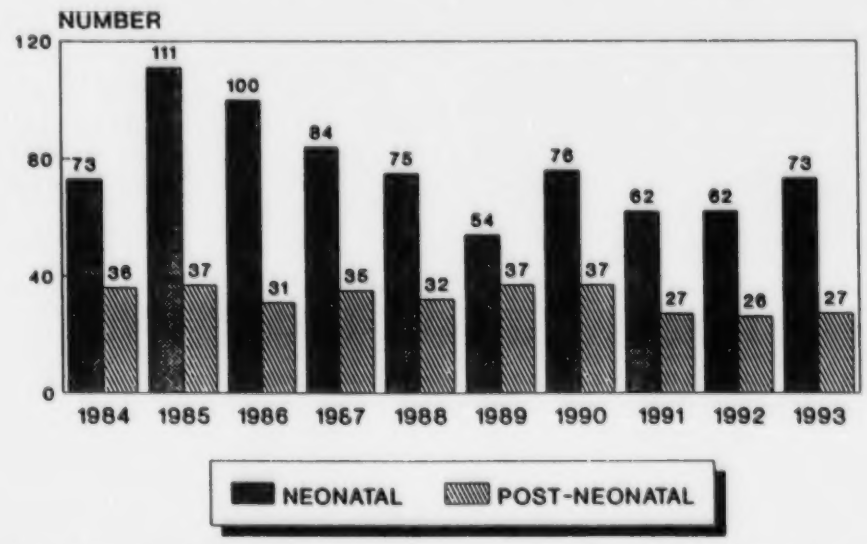
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTHS & PERINATAL DEATHS
WINNIPEG REGION: 1984 TO 1993



MANITOBA INFANT DEATHS
WINNIPEG REGION: 1984 TO 1993



DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

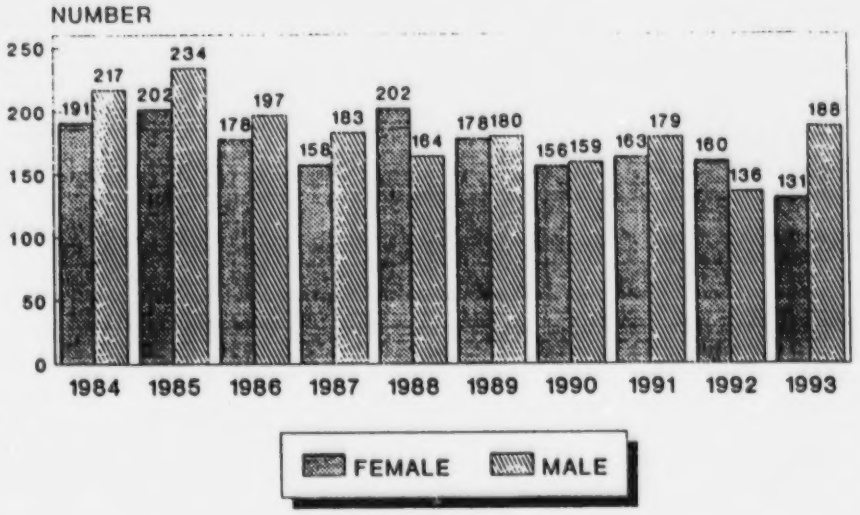
MANITOBA BUREAU OF STATISTICS
JULY 1994

THE

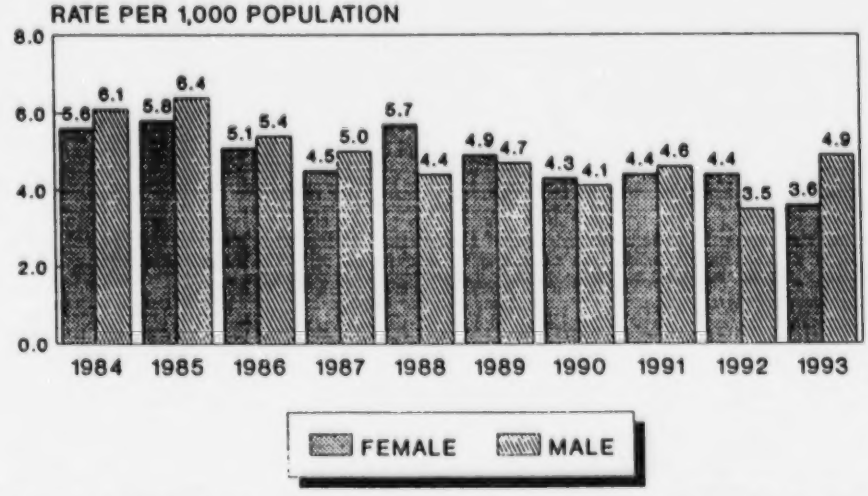
INTERLAKE

REGION

MANITOBA LIVE BIRTHS
INTERLAKE REGION: 1984 TO 1993
BY SEX



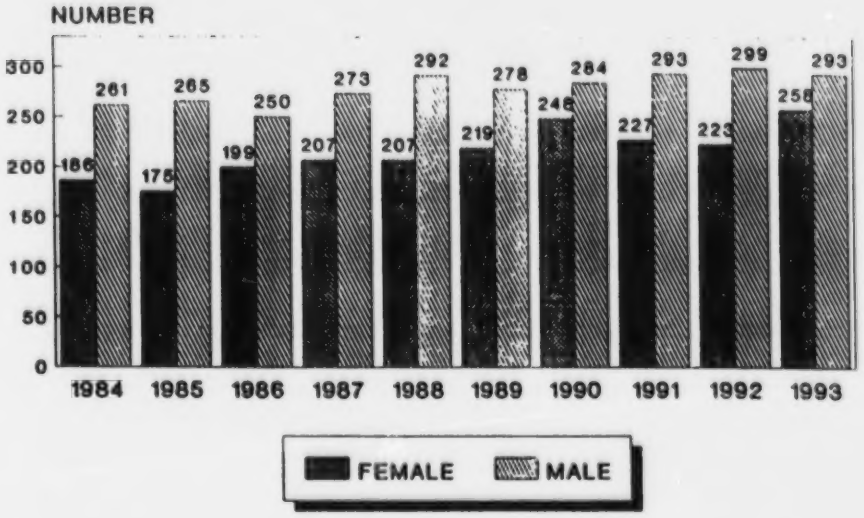
MANITOBA BIRTH RATES
INTERLAKE REGION: 1984 TO 1993
BY SEX



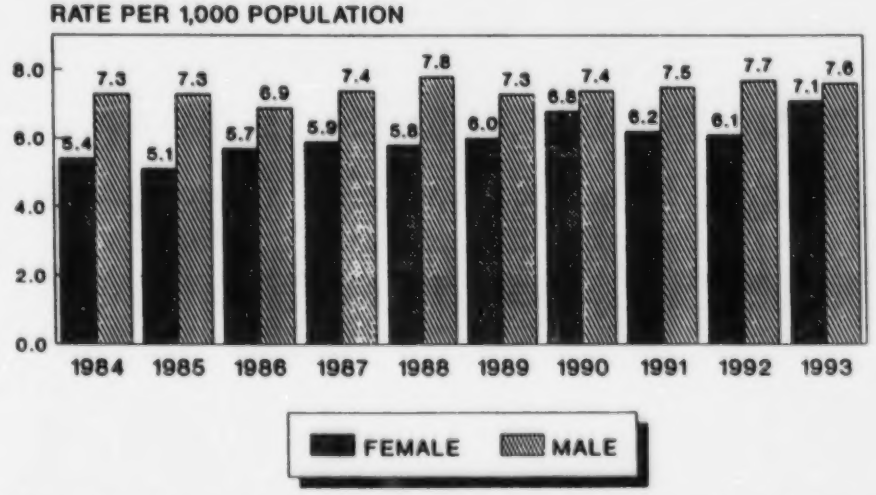
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA DEATHS
INTERLAKE REGION: 1984 TO 1993
BY SEX



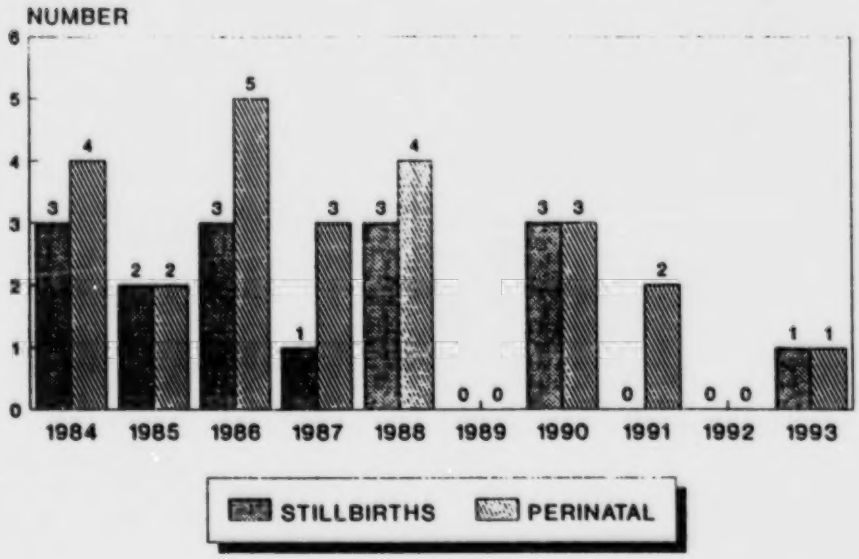
MANITOBA DEATH RATES
INTERLAKE REGION: 1984 TO 1993
BY SEX



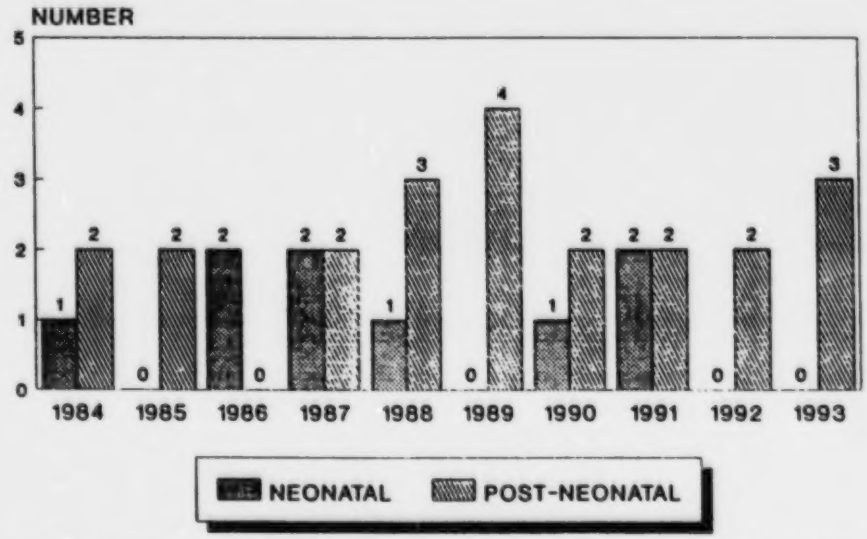
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTHS & PERINATAL DEATHS
INTERLAKE REGION: 1984 TO 1993



MANITOBA INFANT DEATHS
INTERLAKE REGION: 1984 TO 1993



DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

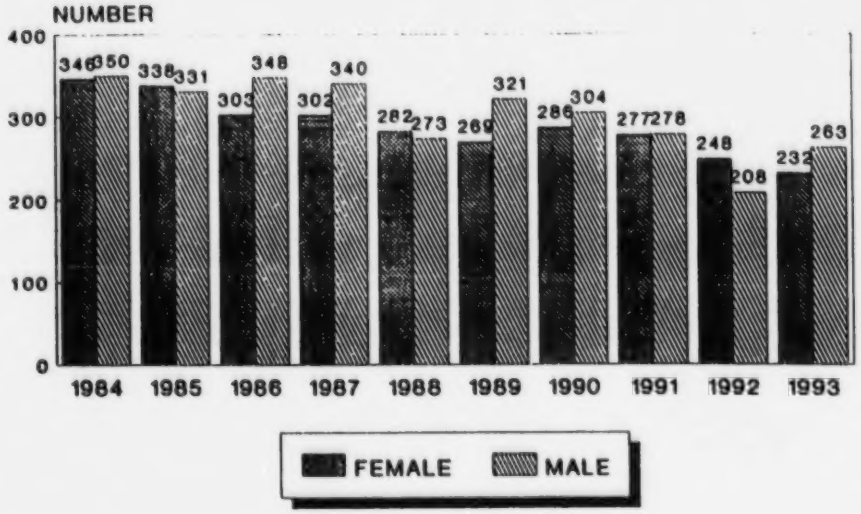
MANITOBA BUREAU OF STATISTICS
JULY 1994

THE

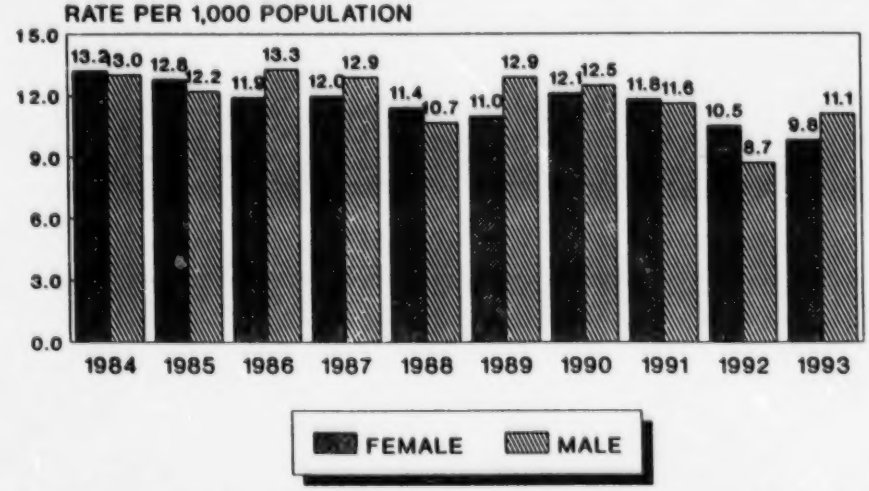
PARKLANDS

REGION

MANITOBA LIVE BIRTHS
PARKLANDS REGION: 1984 TO 1993
BY SEX



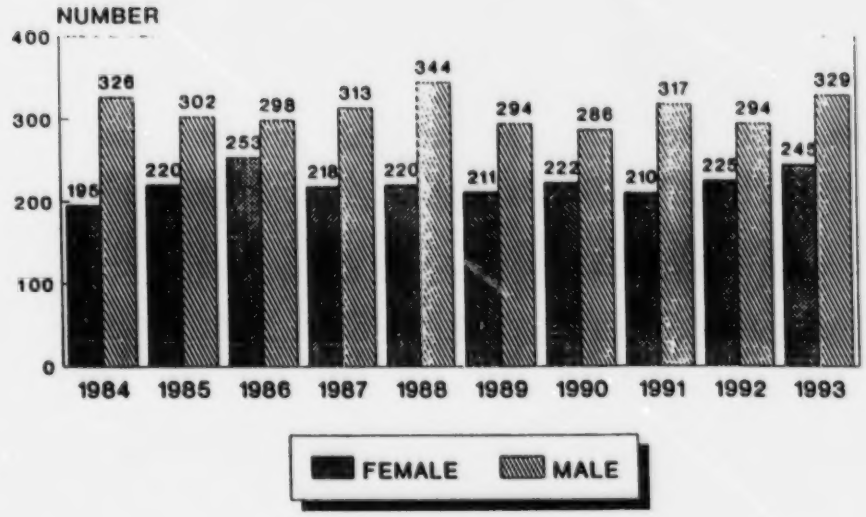
MANITOBA BIRTH RATES
PARKLANDS REGION: 1984 TO 1993
BY SEX



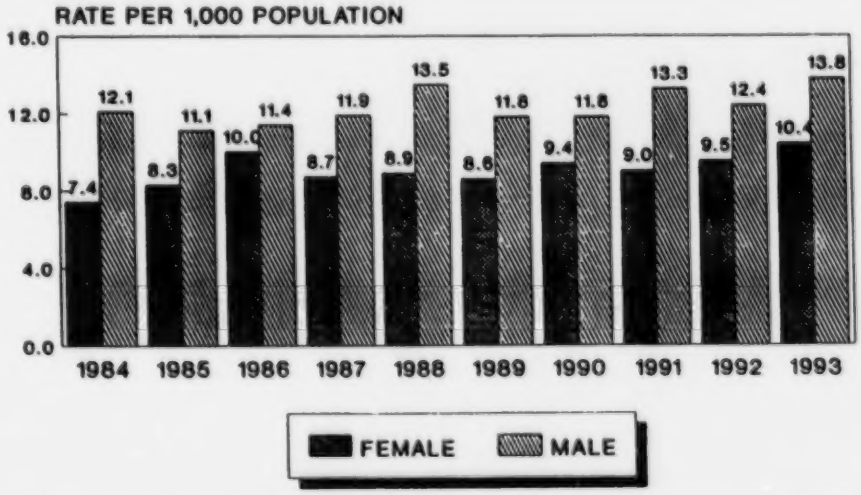
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA DEATHS
PARKLANDS REGION: 1984 TO 1993
BY SEX



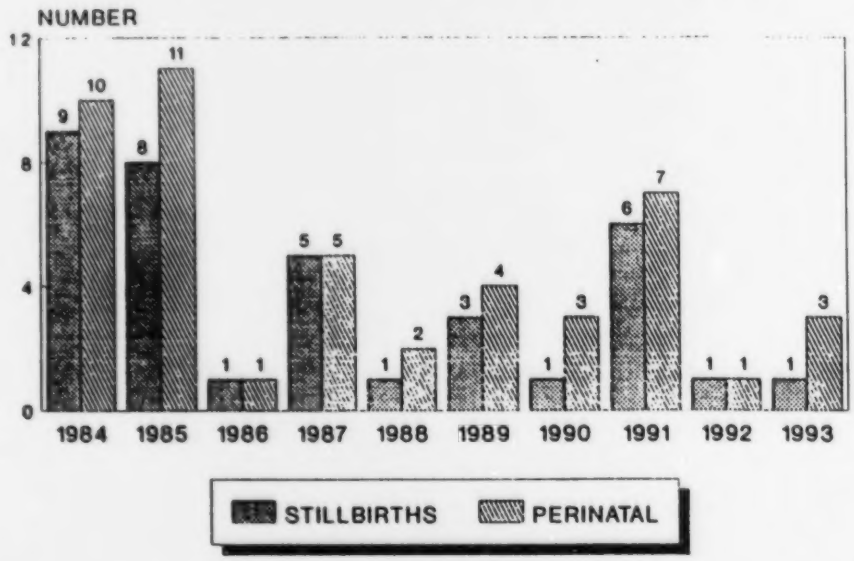
MANITOBA DEATH RATES
PARKLANDS REGION: 1984 TO 1993
BY SEX



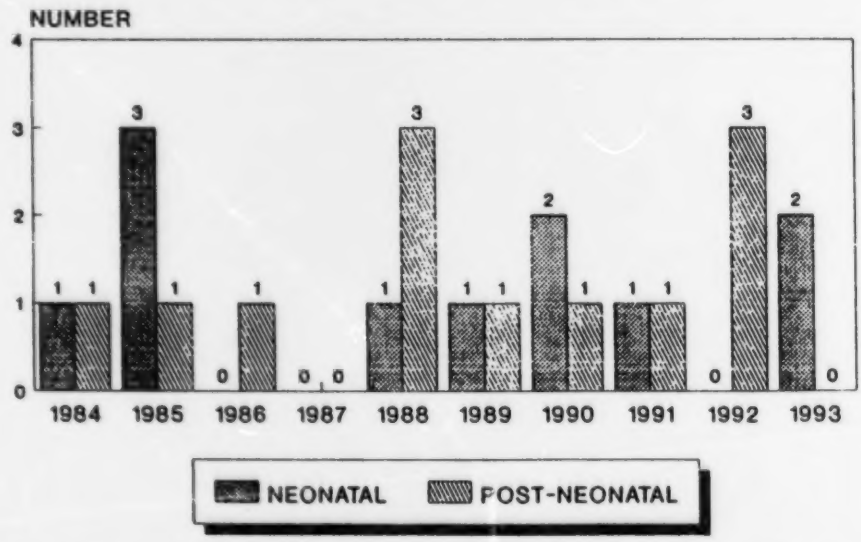
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTHS & PERINATAL DEATHS
PARKLANDS REGION: 1984 TO 1993



MANITOBA INFANT DEATHS
PARKLANDS REGION: 1984 TO 1993



DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

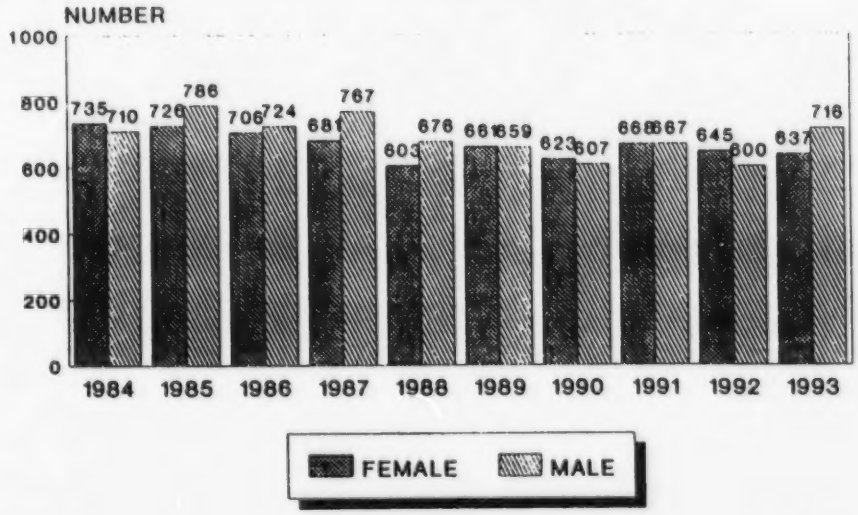
MANITOBA BUREAU OF STATISTICS
JULY 1994

THE

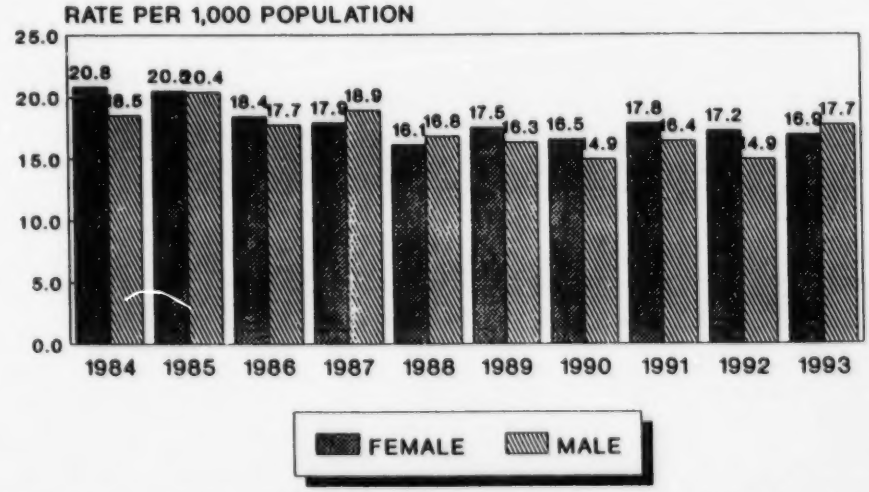
NORTH

REGION

MANITOBA LIVE BIRTHS
NORTH REGION: 1984 TO 1993
BY SEX



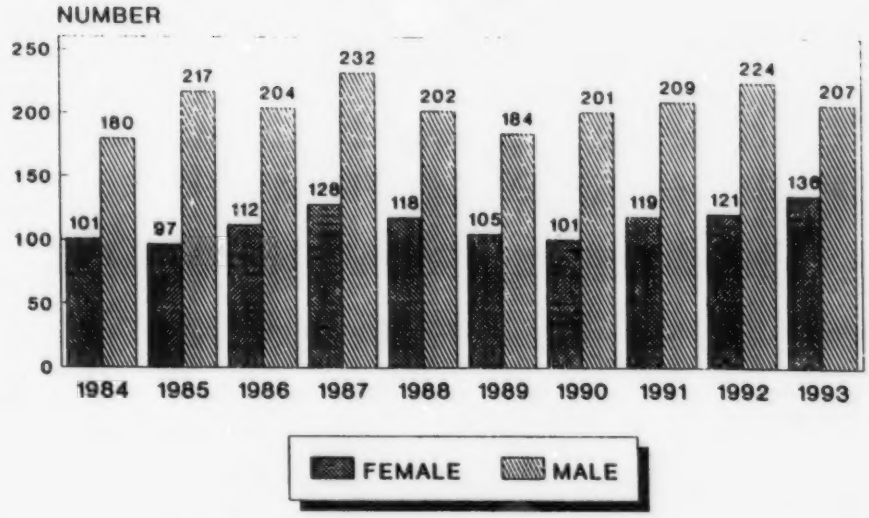
MANITOBA BIRTH RATES
NORTH REGION: 1984 TO 1993
BY SEX



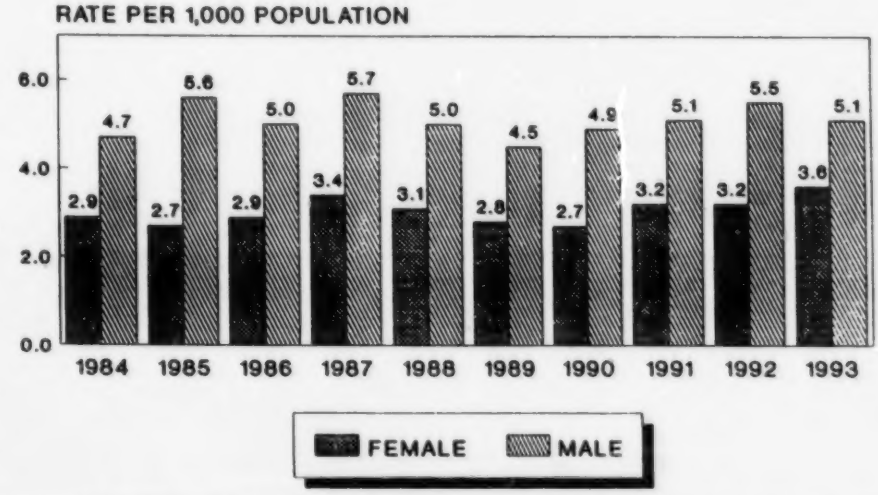
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA DEATHS
NORTH REGION: 1984 TO 1993
BY SEX



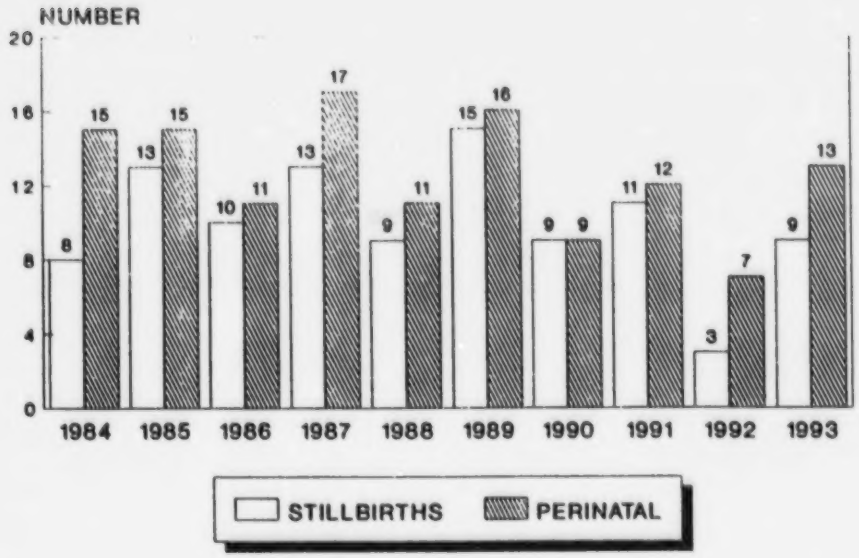
MANITOBA DEATH RATES
NORTH REGION: 1984 TO 1993
BY SEX



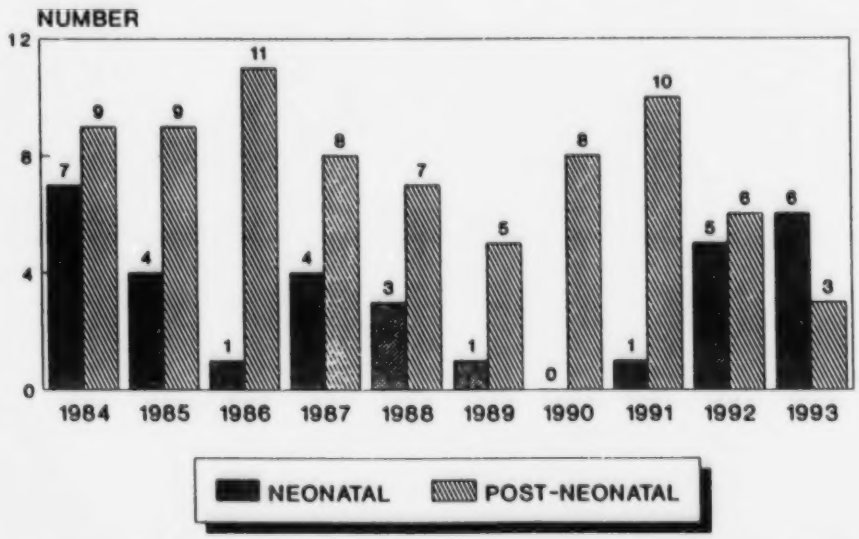
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTHS & PERINATAL DEATHS
NORTH REGION: 1984 TO 1993



MANITOBA INFANT DEATHS
NORTH REGION: 1984 TO 1993

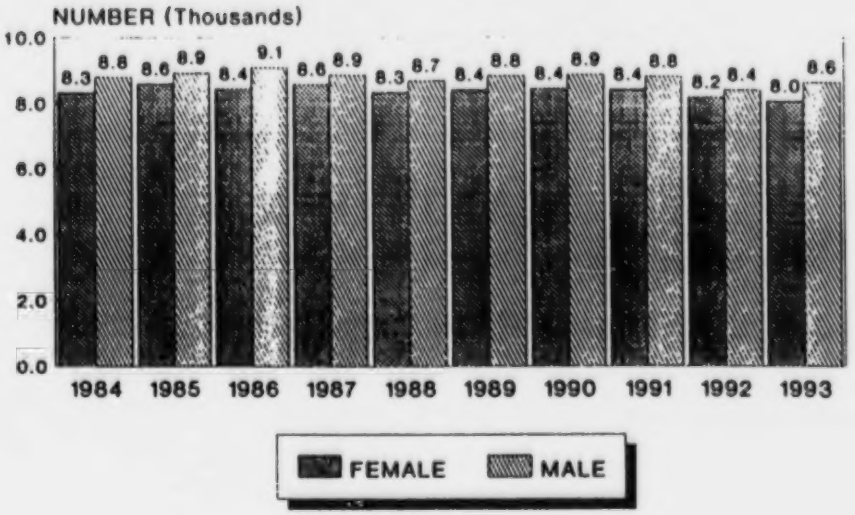


DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

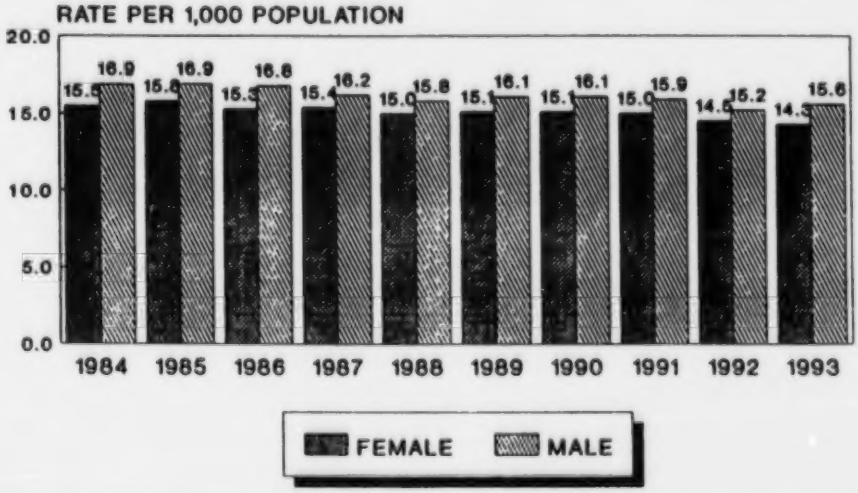
MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA

MANITOBA LIVE BIRTHS
MANITOBA TOTAL: 1984 TO 1993
BY SEX



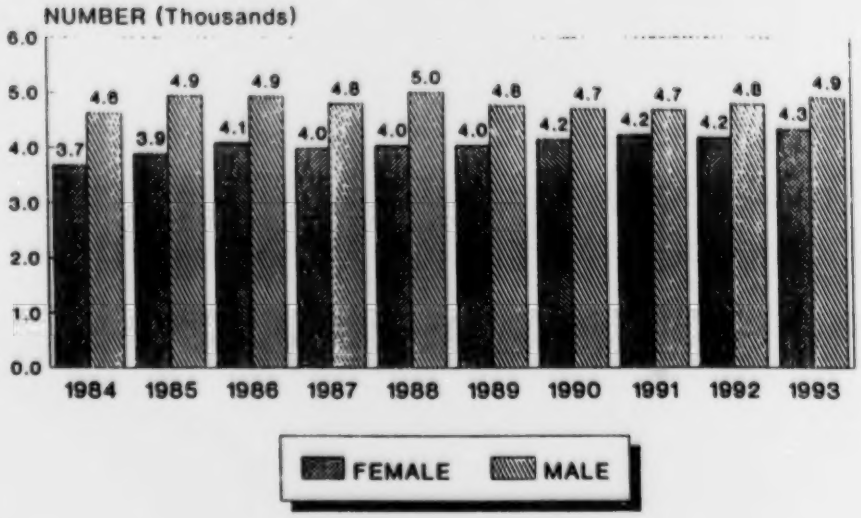
MANITOBA BIRTH RATES
MANITOBA TOTAL: 1984 TO 1993
BY SEX



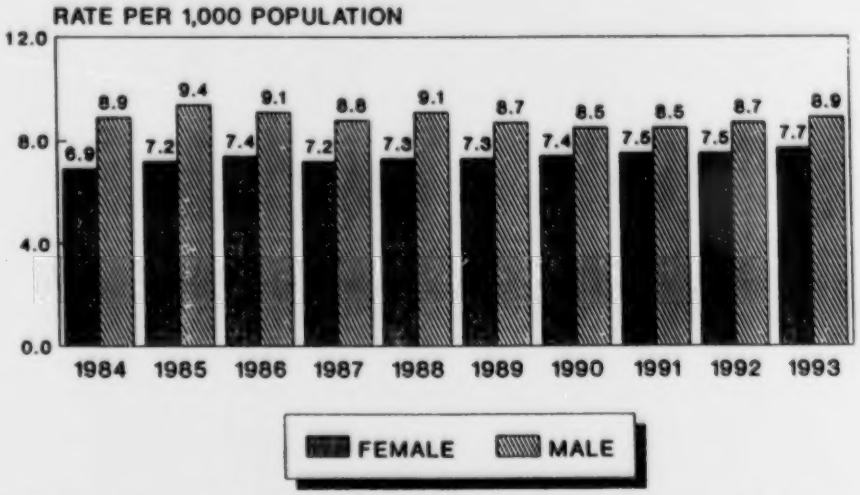
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA DEATHS
MANITOBA TOTAL: 1984 TO 1993
BY SEX



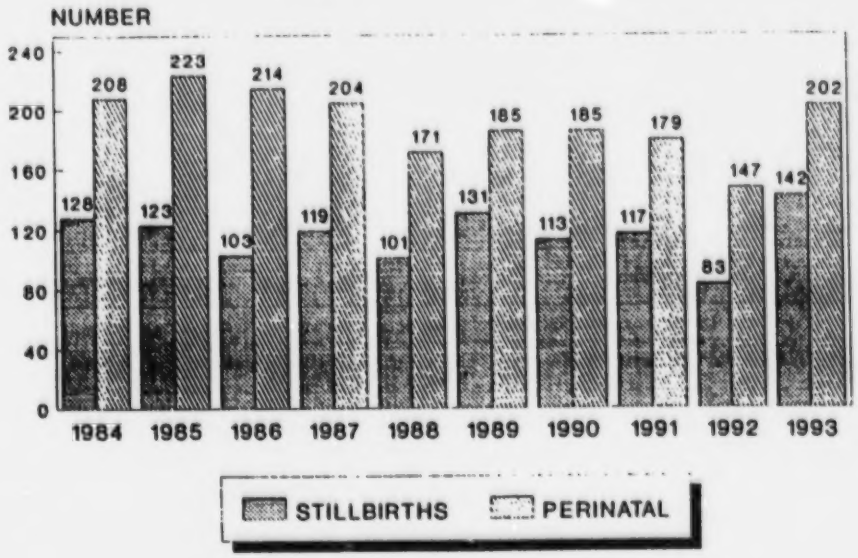
MANITOBA DEATH RATES
MANITOBA TOTAL: 1984 TO 1993
BY SEX



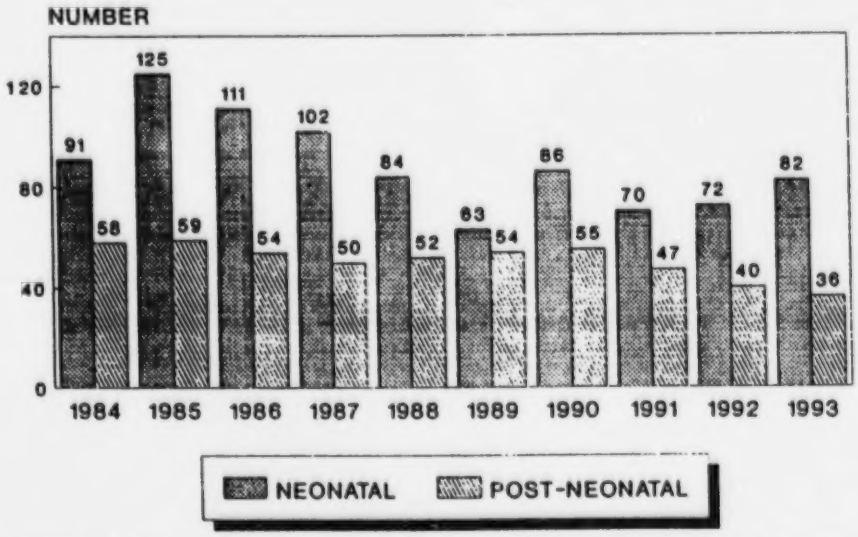
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTHS & PERINATAL DEATHS
MANITOBA TOTAL: 1984 TO 1993



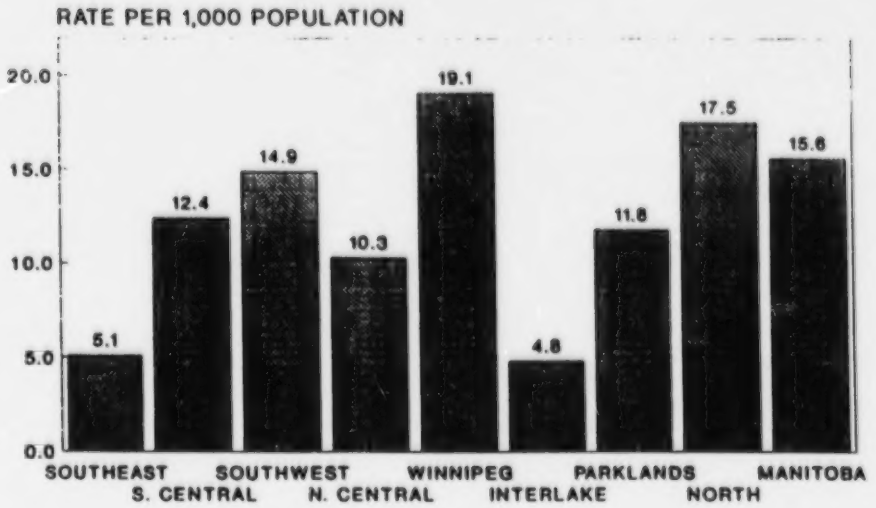
MANITOBA INFANT DEATHS
MANITOBA TOTAL: 1984 TO 1993



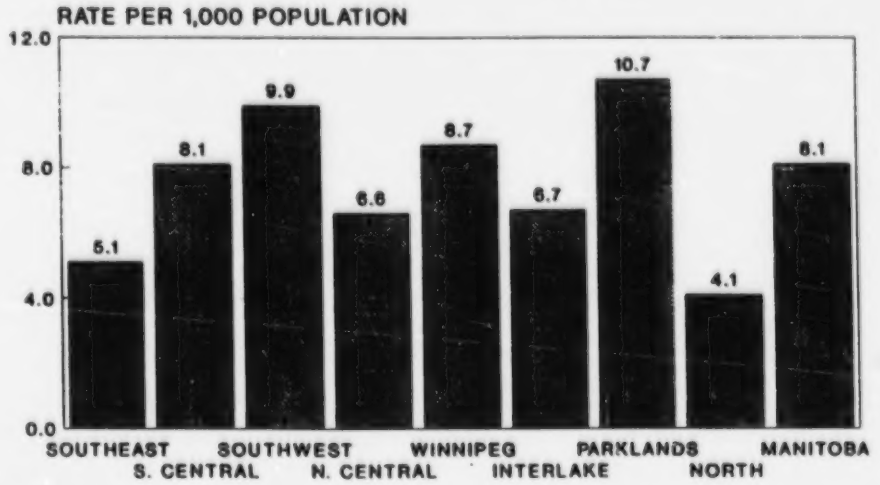
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA BIRTH RATES BY ECONOMIC REGION 1984 - 1993 AVERAGE



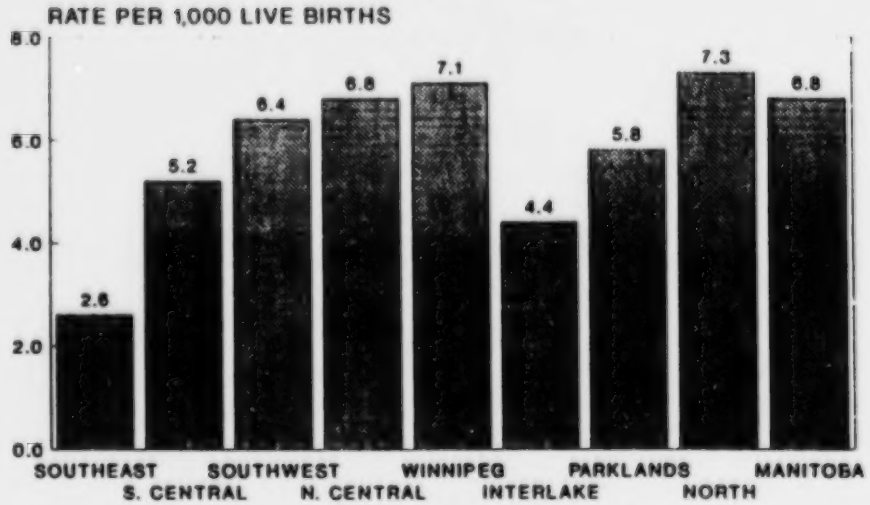
MANITOBA DEATH RATES BY ECONOMIC REGION 1984 - 1993 AVERAGE



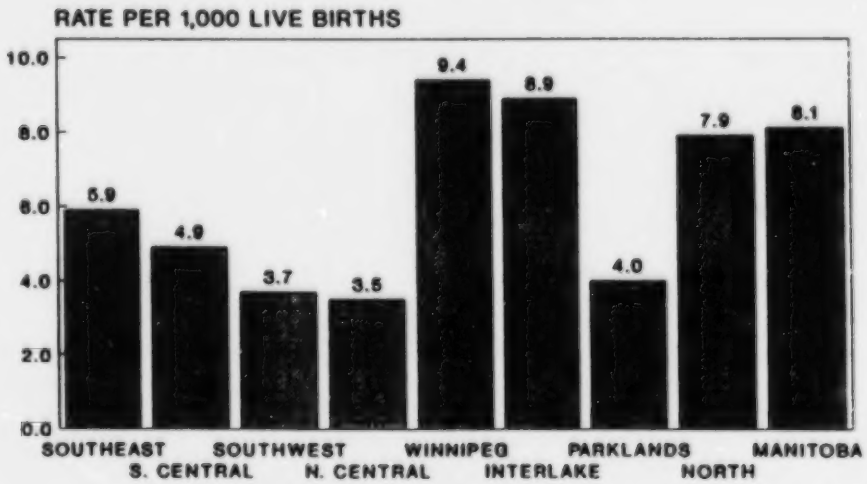
DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994

MANITOBA STILLBIRTH RATES BY ECONOMIC REGION 1984 - 1993 AVERAGE



MANITOBA INFANT DEATH RATES BY ECONOMIC REGION 1984 - 1993 AVERAGE



DATA SOURCE: OFFICE OF VITAL STATISTICS
DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS
JULY 1994